MultiBurner
Multiple DVD Burner
User Guide

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1 Introduction

MultiBurner has been specifically designed for use with Ovation Systems' AfterBurner time-lapse DVD video recorder and is capable of burning up to 7 AfterBurner disks without user intervention. MultiBurner is easy to connect to AfterBurner via a ribbon cable which is supplied with the unit.

MultiBurner can be used back at base to speed up the download of evidence gathered from a number of AfterBurners returned from the field or, alternatively, MultiBurner can be deployed with an AfterBurner where up to 8 DVDs can be automatically burnt without the need for the user to be present.

Another timesaving feature is the ability to burn multiple DVD copies. This is particularly useful for producing a master and working copy when preparing evidence for court.

2 Hardware Installation

MultiBurner connects to AfterBurner via the supplied ribbon cable as shown in Figure 1 below. As the length of the ribbon cable is critical to the operation of the system we recommend only the use of the cable supplied with the MultiBurner.

IMPORTANT ► Please ensure that AfterBurner or MultiBurner are **not** powered when connecting the ribbon cable as damage could occur.

The power requirements for MultiBurner are 10 to 20V DC which should be connected via the power socket at the rear of the unit. MultiBurner has the same connectivity and is supplied with the same mains power supply as AfterBurner.

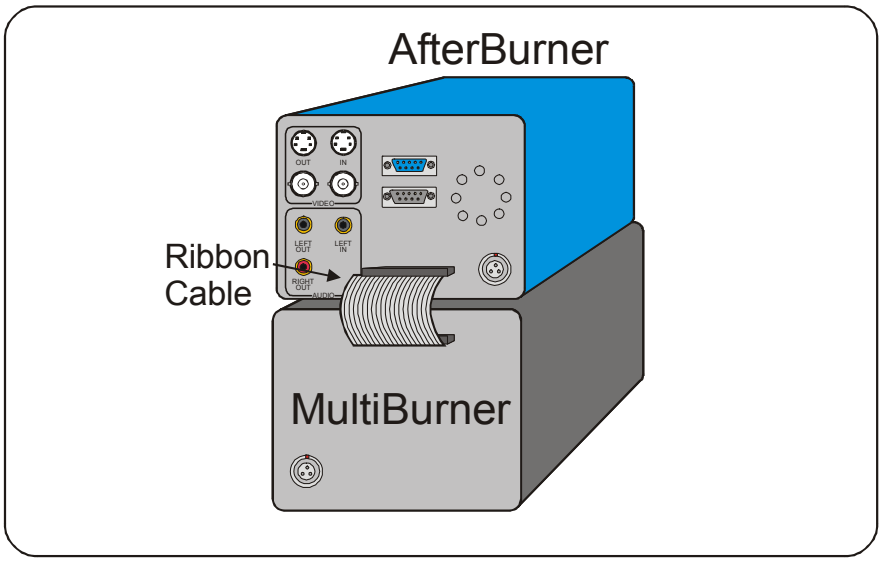


Figure 1: Connecting MultiBurner to AfterBurner

3 Firmware Check

It is strongly recommend that AfterBurner is upgraded to the latest firmware before operation with MultiBurner. AfterBurner firmware is downloadable from

www.ovation.co.uk/AfterBurner/upgrade.asp

Contact support@ovation.co.uk for a username and password.

NB: The MultiBurner does not contain user upgradeable firmware.

4 Basic Function

MultiBurner consists of 7 DVD drives, numbered 1 to 7 (see Figure 2: below).

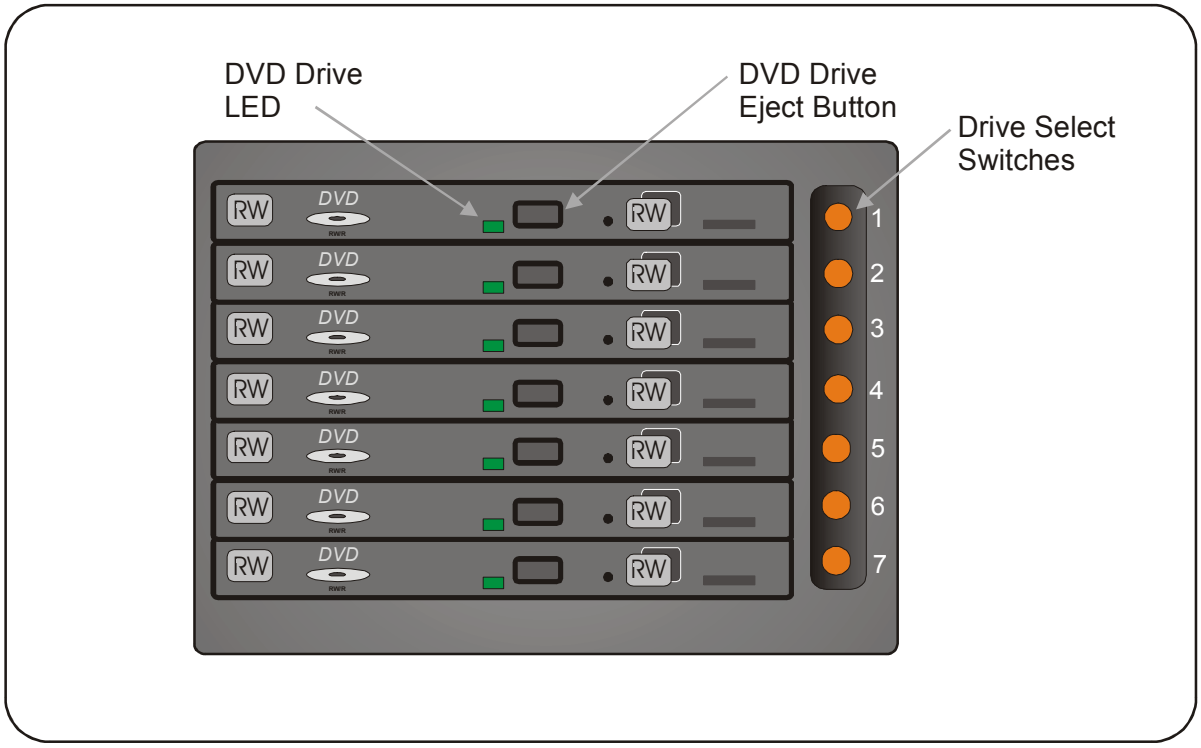


Figure 2: MultiBurner Front Panel

Once connected to DC power, and an AfterBurner, MultiBurner is powered-up by pressing the AfterBurner's "DVD" button.

Each of the MultiBurner drives has an adjacent coloured Drive Select Switch. The colour of the switch indicates the state of the corresponding drive as follows:

Drive Select Switch	Indication
Green (solid):	Tray contains a blank DVD, ready to burn
Green (flashing):	DVD is being burnt
Orange (solid):	Tray is empty
Orange (flashing):	Tray contents unknown
Red (solid):	Tray contains a burnt DVD
Red (flashing):	Burn has failed

Table 1 MultiBurner Switch LED Indications

When MultiBurner is switched on for the first time, AfterBurner checks each DVD drive in turn to ascertain the status of the tray and then sets the adjacent Drive Select Switch colour accordingly.

IMPORTANT ► The initial scanning the drives' status can take up to 60 seconds and should not be interrupted.

4.1 Local Mode:

Initially all MultiBurner drives are under the control of the AfterBurner. The MultiBurner drives can be placed in 'Local' mode by pressing Drive Select Switch adjacent to each drive. The Drive Select Switch then shines brighter and flashes to show the drive is in Local mode. When in Local Mode, the drive can be opened so that a DVD can be inserted or removed by pressing the Drive Eject button (see Figure 2)

N.B. Only one drive can be in Local Mode at any one time.

Local Mode is cancelled (and control of the drive returned to the AfterBurner) by again pressing the Drive Select Switch. When this happens AfterBurner will check the drive and set the Drive Select Switch colour accordingly.

N.B. AfterBurner is unable to read the status of the drive whilst in Local Mode.

5 Loading Blank DVD Disks

1 Power up the MultiBurner by pressing the AfterBurner's "DVD" button.

NB: When the "DVD" button is pressed for the first time, the system checks each MultiBurner DVD drive in turn to ascertain the status of each tray and the illuminates the Drive Select Switch accordingly. This operation takes up to 60 seconds and should not be interrupted.

2 Press the required MultiBurner Drive Select Switch to power-up the drive and to put the drive in Local Mode. The Drive Select Switch now flashes brightly and the Drive LED lights. See Figure 2 for the location of the Drive Select Switch and Drive LED

3 Open the DVD drive tray by pressing the drive eject button (See Figure 2).

4 Place a new (blank) DVD disk the open tray and push the tray to close.

5 Press the Drive Select Switch again to exit Local Mode.

6 Repeat for each DVD drive as necessary.

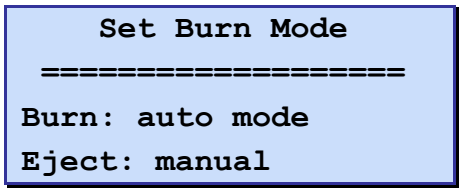
TIP ► A blank disk can also be loaded into the AfterBurner's main DVD drive making a total of 8 disks.

6 Burning Multiple AfterBurner Files

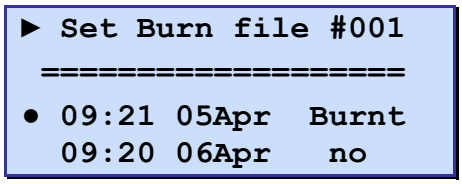
MultiBurner is designed to speed up the burning of many files recorded on the AfterBurners hard drive. This is achieved by:

1 Load MultiBurner with blank DVDs as described in Section 5.

2 Press the “Menu” key twice to set / check the AfterBurner’s “Set Burn Mode” mode is to “auto mode” as shown below.



3 Press the “Menu” key again to select the first file you wish to burn from the AfterBurner’s “Set Burn file” menu. MultiBurner will then burn files from the selected file onwards (i.e. forwards in time).



4 Press the “DVD” button to wake-up the MultiBurner. Press the “DVD” button again to start the burning process.

TIP ► Multiple copies of each disk can be made by setting the “MB Num of copies” to the required number in the “Set Burn Mode” menu. See Section 9, page 9.

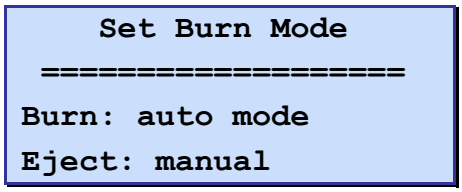
TIP ► The “Eject: When burnt” option in the “Set burn mode” menu will also work with the MultiBurner drives.

7 Burning DVDs Whilst AfterBurner is Recording

Whilst recording, AfterBurner (with a MultiBurner attached) can automatically burn up to 8 DVDs without the need of any user attention. This configuration is very useful in long-term surveillance operations where, in 24 hour mode, over a week of video evidence can be automatically burnt to DVD ready for collection 8 days after the recording commenced.

1 Load MultiBurner with blank DVDs as described in Section 5.

2 Set / check the AfterBurner's "Set Burn Mode" mode is "auto mode" or "at given time", as shown below. The "at given time" option is used when you want to start a new DVD recording at the same time each day (e.g. at midnight).



3 Start the AfterBurner recording by pressing the "REC" button. Each DVD will automatically be burnt as soon as enough data becomes available, or, at the time of day set in the "at given time" menu option

TIP ► Multiple copies of each disk can be made by setting the "MB Num of copies" to the required number in the "Set Burn Mode" menu. See Section 9, page 9.

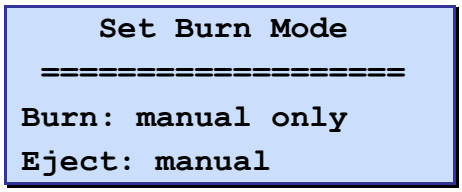
TIP ► The "Eject: When burnt" in the "Set burn mode" menu will also work with the MultiBurner drives.

8 Manually Burning a DVD

It is possible to manually burn a disk in a user selected DVD drive.

1 Ensure there is a blank DVD disk in the required drive, shown by static green Drive Select Switch.

2 Set the burn mode to “manual only” in the “Set burn mode” menu



3 Press the “DVD” button. Use the ▲ ▼ keys to select the required drive. The LCD shows the drive number selected (Drive 0 is the AfterBurner drive).

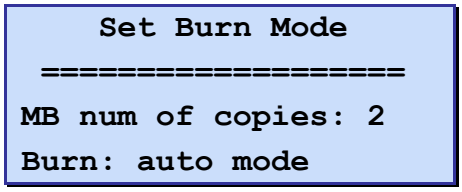
4 Press the “DVD” key again to select the file required for burning using the ▲ ▼ keys.

5 Finally press “DVD” once more to start the burn.

9 Burning Multiple Copies

MultiBurner can burn more than one copy of each DVD. This is especially useful where a master and working copy are required.

1 Go to the “Set burn mode” menu by pressing the “Menu” key twice. Then press ► twice and use the ▲ ▼ keys to set the number copies required.



10 Failed Burn

If a file fails to burn properly then MultiBurner will show this as a flashing red Drive Select Switch. MultiBurner will not try to re-burn that file although if another copy of the same file has been requested and there is a blank DVD available, then this burn will be attempted.

IMPORTANT ► In the event of a DVD burn failure (as shown by a flashing red Drive Select Switch) it is recommended that any re-burn attempt should be performed in manual mode. See Section 8, page 9.

11 Specifications

Operating temperature range	0 to +40 ºC
Mechanical Size	W: 155mm x H: 120mm x D: 260mm
Finish	Painted aluminium
Weight	2.5 kg approx.
Standard accessories	Mains PSU, UK or EU or US mains lead, ribbon cable, user guide
Operating voltage range	10 to 20 V DC
Typical power consumption	Standby: 26mA @ 12V (0.3 Watts) Manual: peak 650mA @ 12V (8 Watts) Idle: 320mA @ 12V (3.8 Watts) Burning: 440mA @ 12V (5.5 Watts) Burning and manual: 900mA @ 12V (11 Watts)
Number of additional drives	7
DVDs supported	+R, -R, -RW, +R dual layer
Max DVD burn rate	x6 (Dual layer x 2.4)
Typical DVD burn time	15 to 20 minutes

Please note, Ovation Systems reserves the right to change specifications without notice. E&OE